Name of Work: Improvements to Sri Sainagara roads in ward no 03

EMB

"FIRST AND FINAL BILL"

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)							
	Sri Sainagara							
	Cross Rd							
	Top Slab							
	Ch:0.00m to 30.00m	LHS	1	2.00	0.90		1.80	
	Ch:30.00m to 60.00m	LHS	1	4.00	0.90		3.60	
	Ch:60.00m to 90.0m	LHS	1	3.00	0.90		2.70	
	Ch:90.00m to 120.0m	LHS	1	4.00	0.90		3.60	
	Ch:120.0m to 141.8m	LHS	1	6.00	0.90		5.40	
	Ch:0.00m to 30.00m	RHS	1	5.00	0.90		4.50	
	Ch:30.00m to 60.00m	RHS	1	4.00	0.90		3.60	
	Ch:60.00m to 90.0m	RHS	1	5.00	0.90		4.50	
	Ch:90.00m to 120.0m	RHS	1	4.00	0.90		3.60	
	Ch:120.0m to 141.8m	RHS	1	4.00	0.90		3.60	
	Bottam Slab							
	Ch:0.00m to 30.00m	LHS	1	4.00	1.65		6.60	
	Ch:30.00m to 60.00m	LHS	1	3.00	1.65		4.95	
	Ch:60.00m to 90.0m	LHS	1	3.00	1.65		4.95	
	Ch:90.00m to 120.0m	LHS	1	2.00	1.65		3.30	
	Ch:120.0m to 141.8m	LHS	1	3.00	1.65		4.95	
	Ch:0.00m to 30.00m	RHS	1	3.00	1.65		4.95	
	Ch:30.00m to 60.00m	RHS	1	6.00	1.65		9.90	
	Ch:60.00m to 90.0m	RHS	1	4.50	1.65		7.43	
	Ch:90.00m to 120.0m	RHS	1	7.00	1.65		11.55	
	Ch:120.0m to 141.8m	RHS	1	4.00	1.65		6.60	
						Present Qty	**102.08**	**Sqm**

Contractor

Asst. Engineer

4/7/2020

Asst. Exec. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)							
	Sri Sainagara							
	Cross Rd							
	Drain Desilt							
	Ch:0.00m to 30.00m	LHS	1	30.00	0.45	0.40	5.40	
	Ch:30.00m to 60.00m	LHS	1	30.00	0.45	0.40	5.40	
	Ch:60.00m to 90.0m	LHS	1	30.00	0.45	0.40	5.40	
	Ch:90.00m to 120.0m	LHS	1	30.00	0.45	0.40	5.40	
	Ch:120.0m to 141.8m	LHS	1	21.80	0.45	0.40	3.92	
	Ch:0.00m to 30.00m	RHS	1	30.00	0.45	0.40	5.40	
	Ch:30.00m to 60.00m	RHS	1	30.00	0.45	0.40	5.40	
	Ch:60.00m to 90.0m	RHS	1	30.00	0.45	0.40	5.40	
	Ch:90.00m to 120.0m	RHS	1	30.00	0.45	0.40	5.40	
	Ch:120.0m to 141.8m	RHS	1	21.80	0.45	0.40	3.92	
						Present Qty	**51.05**	**Cum**

CNC

ontractor

Asst. Engineer

20.7.2020

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ಯಲಹಂಕ ಉಪವಿಭಾಗ
Asst. Executive Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick (P.No.27,I.No.5.31.1 of PW, P&IWTD SR 2018-19							
	Missing /Damaged							
	Sri Sainagara							
	Cross Rd							
	Bottom Slab							
	Ch:0.00m to 30.00m	LHS	1	1.60	1.65		2.64	
	Ch:30.00m to 60.00m	LHS	1	2.00	1.65		3.30	
	Ch:60.00m to 90.0m	LHS	1	3.00	1.65		4.95	
	Ch:90.00m to 120.0m	LHS	1	2.50	1.65		4.13	
	Ch:120.0m to 141.8m	LHS	1	3.00	1.65		4.95	
	Ch:0.00m to 30.00m	RHS	1	2.00	1.65		3.30	
	Ch:30.00m to 60.00m	RHS	1	2.20	1.65		3.63	
	Ch:60.00m to 90.0m	RHS	1	2.30	1.65		3.80	
	Ch:90.00m to 120.0m	RHS	1	2.50	1.65		4.13	
	Ch:120.0m to 141.8m	RHS	1	2.00	1.65		3.30	
						Present Qty	**38.12**	**Sqm**

81 FC

ntractor

Asst. Engineer,
25.7.2020

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
Asst. Exec. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.						
	Asphalt Road						
	Attur						
	7th Cross Rd						
	LHS						
	Ch:0.00m to 30.00m	1	30.00	(1.10 + 1.05)/2	0.20	6.45	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.05)/2	0.20	6.30	
	Ch:60.00m to 90.00m	1	30.00	(1.05 + 1.00)/2	0.20	6.15	
	Ch:90.00m to 120.00m	1	30.00	(1.00 + 1.10)/2	0.20	6.30	
	Ch:120.00m to 150.0m	1	30.00	(1.10 + 1.05)/2	0.20	6.45	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.05)/2	0.20	6.15	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.10)/2	0.20	6.45	
	Ch:60.00m to 90.00m	1	30.00	(1.10 + 1.15)/2	0.20	6.75	
	Ch:90.00m to 120.00m	1	30.00	(1.15 + 1.05)/2	0.20	6.60	
	Ch:120.00m to 150.0m	1	30.00	(1.05 + 1.00)/2	0.20	6.15	
	5th A Main Rd						
	LHS						
	Ch:0.0m to 30.00m	1	30.00	(0.90 + 1.00)/2	0.20	5.70	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.00)/2	0.20	6.00	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.00)/2	0.20	3.22	

CNFC

Contractor

Asst. Engineer

4.8.2020

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ಯಲಹಂಕ Asst. Exec. Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	RHS						
	Ch:0.0m to 30.00m	1	30.00	(1.10 + 1.05)/2	0.20	6.45	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.00)/2	0.20	6.15	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.15)/2	0.20	3.46	
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.30)/2	0.35	64.05	
	Ch:30.00m to 60.00m	1	30.00	(5.30 + 6.10)/2	0.35	59.85	
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20)/2	0.35	64.58	
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00)/2	0.35	64.05	
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20)/2	0.35	45.78	
	9th cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.05 + 1.00)/2	0.35	10.76	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.00)/2	0.35	10.50	
	Ch:60.00m to 90.00m	1	30.00	(1.00 + 1.20)/2	0.35	11.55	
	Ch:90.00m to 99.70m	1	9.70	(1.20 + 1.10)/2	0.35	3.90	
	Berm Cutting						
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.00)/2	0.25	7.50	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.00)/2	0.25	7.50	
	Ch:60.00m to 90.00m	1	30.00	(1.00 + 1.00)/2	0.25	7.21	
	Ch:90.00m to 120.00m	1	30.00	(1.00 + 1.00)/2	0.20	6.00	
	Ch:120.00m to 141.80m	1	21.80	(1.00 + 1.00)/2	0.20	4.36	
					Present Qty	**462.32**	**Cum**

Contractor

Asst. Engineer

4.8.2020

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Asst. Exec. Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-10

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
5	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3(P.No-147,I No-19.64)						
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.90)/2		192.00	
	Ch:30.00m to 60.00m	1	30.00	(5.90 + 6.10)/2		180.00	
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20)/2		184.50	
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00)/2		183.00	
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20)/2		130.80	
					Present Qty	**870.30**	**Sqm**
					Limited	**832.00**	**Sqm**

C.Pfc

Contractor

Asst. Engineer

4.8.2020

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Asst. Exec. Engineer,
ಬ.ಬ.ಪ.ಕ. ಬೆಂಗಳೂರು-106

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications						
	Asphalt Road						
	Attur						
	7th Cross Rd						
	LHS						
	Ch:0.00m to 30.00m	1	30.00	(1.10 + 1.05)/2	0.15	4.84	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.05)/2	0.15	4.73	
	Ch:60.00m to 90.00m	1	30.00	(1.05 + 1.00)/2	0.15	4.61	
	Ch:90.00m to 120.00m	1	30.00	(1.00 + 1.10)/2	0.15	4.73	
	Ch:120.00m to 150.0m	1	30.00	(1.10 + 1.05)/2	0.15	4.84	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.05)/2	0.15	4.61	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.10)/2	0.15	4.84	
	Ch:60.00m to 90.00m	1	30.00	(1.10 + 1.15)/2	0.15	5.06	
	Ch:90.00m to 120.00m	1	30.00	(1.15 + 1.05)/2	0.15	4.95	
	Ch:120.00m to 150.0m	1	30.00	(1.05 + 1.00)/2	0.15	4.61	
	5th A Main Rd						
	LHS						
	Ch:0.0m to 30.00m	1	30.00	(0.90 + 1.00)/2	0.15	4.28	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.00)/2	0.15	4.50	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.00)/2	0.15	2.42	

Contractor

Asst. Engineer

11.8.2020

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
Asst. Exec. Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-64

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	RHS						
	Ch:0.0m to 30.00m	1	30.00	(1.10 + 1.05)/2	0.15	4.84	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.00)/2	0.15	4.61	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.15)/2	0.15	2.60	
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.30)/2	0.15	27.45	
	Ch:30.00m to 60.00m	1	30.00	(5.30 + 6.10)/2	0.15	25.65	
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20)/2	0.15	27.68	
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00)/2	0.15	27.45	
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20)/2	0.15	19.62	
	9th cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.05 + 1.00)/2	0.15	4.61	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.03)/2	0.15	4.57	
	Ch:60.00m to 90.00m	1	30.00	(1.03 + 1.20)/2	0.15	5.02	
	Ch:90.00m to 99.70m	1	9.70	(1.20 + 1.12)/2	0.15	1.69	
					Present Qty	**214.78**	**Cum**

Contractor

Asst. Engineer. 11.6.2020

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Asst. Exec. Engineer,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per						
	Asphalt Road						
	Attur						
	7th Cross Rd						
	LHS						
	Ch:0.00m to 30.00m	1	30.00	(1.10 + 1.05)/2	0.200	6.45	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.05)/2	0.200	6.30	
	Ch:60.00m to 90.00m	1	30.00	(1.05 + 1.00)/2	0.200	6.15	
	Ch:90.00m to 120.00m	1	30.00	(1.00 + 1.10)/2	0.200	6.30	
	Ch:120.00m to 150.0m	1	30.00	(1.10 + 1.05)/2	0.200	6.45	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	(1.00 + 1.05)/2	0.200	6.15	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.10)/2	0.200	6.45	
	Ch:60.00m to 90.00m	1	30.00	(1.10 + 1.15)/2	0.200	6.75	
	Ch:90.00m to 120.00m	1	30.00	(1.15 + 1.05)/2	0.200	6.60	
	Ch:120.00m to 150.0m	1	30.00	(1.05 + 1.00)/2	0.200	6.15	
	5th A Main Rd						
	LHS						
	Ch:0.0m to 30.00m	1	30.00	(0.90 + 1.00)/2	0.200	5.70	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.00)/2	0.200	6.00	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.00)/2	0.200	3.22	

Director

Asst. Engineer.

20.8.2020

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ಯಲಹಂಕ ಉಪವಲಯ ಪಾಲಿಕೆ
Asst. Exec. Engineer,
ಪಾ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-106

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	RHS						
	Ch:0.0m to 30.00m	1	30.00	(1.10 + 1.05)/2	0.200	6.45	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.00)/2	0.200	6.15	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.15)/2	0.200	3.46	
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.30)/2	0.200	36.60	
	Ch:30.00m to 60.00m	1	30.00	(5.30 + 6.10)/2	0.200	34.20	
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20)/2	0.200	36.90	
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00)/2	0.200	36.60	
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20)/2	0.200	26.16	
	9th cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.05 + 1.00)/2	0.200	6.15	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.03)/2	0.200	6.09	
	Ch:60.00m to 90.00m	1	30.00	(1.03 + 1.20)/2	0.200	6.69	
	Ch:90.00m to 99.70m	1	9.70	(1.20 + 1.12)/2	0.200	2.25	
					Present Qty	**286.37**	**Cum**

Asst. Engineer

20.5.2020

Asst. Exec. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.						
	Asphalt Road						
	Attur						
	7th Cross Rd						
	LHS						
	Ch:0.00m to 30.00m	1	30.00	$\frac{1.10 + 1.05}{2}$		32.25	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.05 + 1.05}{2}$		31.50	
	Ch:60.00m to 90.00m	1	30.00	$\frac{1.05 + 1.00}{2}$		30.75	
	Ch:90.00m to 120.00m	1	30.00	$\frac{1.00 + 1.10}{2}$		31.50	
	Ch:120.00m to 150.0m	1	30.00	$\frac{1.10 + 1.05}{2}$		32.25	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	$\frac{1.00 + 1.05}{2}$		30.75	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.05 + 1.10}{2}$		32.25	
	Ch:60.00m to 90.00m	1	30.00	$\frac{1.10 + 1.15}{2}$		33.75	
	Ch:90.00m to 120.00m	1	30.00	$\frac{1.15 + 1.05}{2}$		33.00	
	Ch:120.00m to 150.0m	1	30.00	$\frac{1.05 + 1.00}{2}$		30.75	
	5th A Main Rd						
	LHS						
	Ch:0.0m to 30.00m	1	30.00	$\frac{0.90 + 1.00}{2}$		28.50	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.00 + 1.00}{2}$		30.00	
	Ch:60.00m to 76.10m	1	16.10	$\frac{1.00 + 1.00}{2}$		16.10	

Contractor

Asst. Engineer

28.8.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜ.ಬ.ಎ.ಕ. ಬೆಂಗಳೂರು

Asst. Executive Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	RHS						
	Ch:0.0m to 30.00m	1	30.00	(1.10 + 1.05) / 2		32.25	
	Ch:30.00m to 60.00m	1	30.00	(1.05 + 1.00) / 2		30.75	
	Ch:60.00m to 76.10m	1	16.10	(1.00 + 1.15) / 2		17.31	
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.30) / 2		183.00	
	Ch:30.00m to 60.00m	1	30.00	(5.30 + 6.10) / 2		171.00	
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20) / 2		184.50	
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00) / 2		183.00	
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20) / 2		130.80	
	9th cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(1.05 + 1.00) / 2		30.75	
	Ch:30.00m to 60.00m	1	30.00	(1.00 + 1.03) / 2		30.45	
	Ch:60.00m to 90.00m	1	30.00	(1.03 + 1.20) / 2		33.45	
	Ch:90.00m to 99.70m	1	9.70	(1.20 + 1.12) / 2		11.26	
					Present Qty	**1431.87**	**Sqm**

Contractor

Asst. Engineer

26.8.2020

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
Asst. Exec. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75						
	Asphalt Road						
	Attur						
	7th Cross Rd						
	LHS						
	Ch:0.00m to 30.00m	1	30.00	$\frac{1.10 + 1.05}{2}$	0.05	1.61	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.05 + 1.05}{2}$	0.05	1.58	
	Ch:60.00m to 90.00m	1	30.00	$\frac{1.05 + 1.00}{2}$	0.05	1.54	
	Ch:90.00m to 120.00m	1	30.00	$\frac{1.00 + 1.10}{2}$	0.05	1.58	
	Ch:120.00m to 150.0m	1	30.00	$\frac{1.10 + 1.05}{2}$	0.05	1.61	
	RHS						
	Ch:0.00m to 30.00m	1	30.00	$\frac{1.00 + 1.05}{2}$	0.05	1.54	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.05 + 1.10}{2}$	0.05	1.61	
	Ch:60.00m to 90.00m	1	30.00	$\frac{1.10 + 1.15}{2}$	0.05	1.69	
	Ch:90.00m to 120.00m	1	30.00	$\frac{1.15 + 1.05}{2}$	0.05	1.65	
	Ch:120.00m to 150.0m	1	30.00	$\frac{1.05 + 1.00}{2}$	0.05	1.54	
	5th A Main Rd						
	LHS						
	Ch:0.0m to 30.00m	1	30.00	$\frac{0.90 + 1.00}{2}$	0.05	1.43	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.00 + 1.00}{2}$	0.05	1.50	

CQFC

Contractor

Asst. Engineer

28.8.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

Asst. Exec. Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:60.00m to 76.10m	1	16.10	$\frac{1.00 + 1.00}{2}$	0.05	0.81	
	RHS						
	Ch:0.0m to 30.00m	1	30.00	$\frac{1.10 + 1.05}{2}$	0.05	1.61	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.05 + 1.00}{2}$	0.05	1.54	
	Ch:60.00m to 76.10m	1	16.10	$\frac{1.00 + 1.15}{2}$	0.05	0.87	
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	$\frac{6.90 + 5.30}{2}$	0.05	9.15	
	Ch:30.00m to 60.00m	1	30.00	$\frac{5.30 + 6.10}{2}$	0.05	8.55	
	Ch:60.00m to 90.00m	1	30.00	$\frac{6.10 + 6.20}{2}$	0.05	9.23	
	Ch:90.00m to 120.00m	1	30.00	$\frac{6.20 + 6.00}{2}$	0.05	9.15	
	Ch:120.00m to 141.80m	1	21.80	$\frac{5.80 + 6.20}{2}$	0.05	6.54	
	9th cross Rd						
	Ch:0.00m to 30.00m	1	30.00	$\frac{1.05 + 1.00}{2}$	0.05	1.54	
	Ch:30.00m to 60.00m	1	30.00	$\frac{1.00 + 1.03}{2}$	0.05	1.52	
	Ch:60.00m to 90.00m	1	30.00	$\frac{1.03 + 1.20}{2}$	0.05	1.67	
	Ch:90.00m to 99.70m	1	9.70	$\frac{1.20 + 1.12}{2}$	0.05	0.56	
					Present Qty	**71.59**	**Cum**

C2FC

Contractor

Asst. Engineer

28.8.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
Asst. Exec. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
10	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.						
	Asphalt Road						
	Attur						
	7th Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(5.60 + 5.70)/2		169.50	
	Ch:30.00m to 60.00m	1	30.00	(5.70 + 4.00)/2		145.50	
	Ch:60.00m to 90.00m	1	30.00	(4.00 + 5.10)/2		136.50	
	Ch:90.00m to 120.00m	1	30.00	(5.10 + 4.80)/2		148.50	
	Ch:120.00m to 150.0m	1	30.00	(4.80 + 5.30)/2		151.50	
	5th A Main Rd						
	Ch:0.0m to 30.00m	1	30.00	(6.60 + 4.90)/2		172.50	
	Ch:30.00m to 60.00m	1	30.00	(4.90 + 5.00)/2		148.50	
	Ch:60.00m to 76.10m	1	16.10	(5.00 + 2.80)/2		62.79	
	Sri Sainagara						
	Cross Rd						
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.30)/2		183.00	
	Ch:30.00m to 60.00m	1	30.00	(5.30 + 6.10)/2		171.00	
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20)/2		184.50	
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00)/2		183.00	
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20)/2		130.80	

Contractor

Asst. Engineer

29.4.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. Asst. Exec. Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	9th cross Rd						
	Ch:0.00m to 30.00m	1	30.00	5.00 + 4.10 / 2		136.50	
	Ch:30.00m to 60.00m	1	30.00	4.10 + 3.60 / 2		115.77	
	Ch:60.00m to 90.00m	1	30.00	3.60 + 4.70 / 2		124.50	
	Ch:90.00m to 99.70m	1	9.70	4.70 + 4.40 / 2		44.14	
					Present Qty	**2408.50**	**Sqm**

Contractor

Asst. Engineer. 29.9.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು
Asst. Executive Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Detailed Measurements									
Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)									
Vide Pre-measurement page no.						102.08			
Present Qty						**102.08**	**Sqm**	**95.35**	**9733.00**
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per									
Vide Pre-measurement page no.						51.05			
Present Qty						**51.05**	**Cum**	**184.43**	**9415.00**
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5 cms thick									
Vide Pre-measurement page no.						38.12			
Present Qty						**38.12**	**Sqm**	**635.67**	**24229.00**
KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.									
Vide Pre-measurement page no.						462.32			
Present Qty						**462.32**	**Cum**	**54.78**	**25327.00**
KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications									
Vide Pre-measurement page no.						832.00			
Present Qty						**832.00**	**Sqm**	**5.45**	**4535.00**
Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in									
Vide Pre-measurement page no.						214.78			
Present Qty						**214.78**	**Cum**	**1709.05**	**367070.00**
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site,									
Vide Pre-measurement page no.						286.37			
Present Qty						**286.37**	**Cum**	**1714.50**	**490988.00**

Asst. Engineer

29.9.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಮುನಿಸಿಪಾಲಿಟಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ Asst. Exec. Engineer,

Discription of Item	Side	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per									
Vide Pre-measurement page no.						1431.87			
					Present Qty	1431.87	Sqm	24.52	35110.00
KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment,									
Vide Pre-measurement page no.						71.59			
					Present Qty	71.59	Cum	5652.03	404648.00
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM									
Vide Pre-measurement page no.						2408.50			
					Present Qty	2408.50	Sqm	10.90	26253.00

Asst. Engineer

29.9.2020

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ. Asst. Exe. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discnption of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
11	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and								
	Asphalt Road								
	Attur								
	7th Cross Rd								
	Ch:0.00m to 30.00m	1	30.00	(5.60 + 5.70)/2	0.03	5.09			
	Ch:30.00m to 60.00m	1	30.00	(5.70 + 4.00)/2	0.03	4.37			
	Ch:60.00m to 90.00m	1	30.00	(4.00 + 5.10)/2	0.03	4.10			
	Ch:90.00m to 120.00m	1	30.00	(5.10 + 4.80)/2	0.03	4.46			
	Ch:120.00m to 150.0m	1	30.00	(4.80 + 5.30)/2	0.03	4.55			
	5th A Main Rd								
	Ch:0.0m to 30.00m	1	30.00	(6.60 + 4.90)/2	0.03	5.18			
	Ch:30.00m to 60.00m	1	30.00	(4.90 + 5.00)/2	0.03	4.46			
	Ch:60.00m to 76.10m	1	76.10	(5.00 + 2.80)/2	0.03	1.88			
	Sri Sainagara								
	Cross Rd								
	Ch:0.00m to 30.00m	1	30.00	(6.90 + 5.30)/2	0.03	5.49			
	Ch:30.00m to 60.00m	1	30.00	(5.30 + 6.10)/2	0.03	5.13			
	Ch:60.00m to 90.00m	1	30.00	(6.10 + 6.20)/2	0.03	5.54			
	Ch:90.00m to 120.00m	1	30.00	(6.20 + 6.00)/2	0.03	5.49			
	Ch:120.00m to 141.80m	1	21.80	(5.80 + 6.20)/2	0.03	3.92			
	9th cross Rd								
	Ch:0.00m to 30.00m	1	30.00	(5.00 + 4.10)/2	0.03	4.10			

Contractor

Asst. Engineer

29.9.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-064

Asst. Exec. Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:30.00m to 60.00m	1	30.00	(4.10 + 3.60)/2	0.03	3.43			
	Ch:60.00m to 90.00m	1	30.00	(3.60 + 4.70)/2	0.03	3.74			
	Ch:90.00m to 99.70m	1	9.70	(4.70 + 4.40)/2	0.03	1.32			
					Present Qty	**72.21**	**Cum**	**6642.77**	**479654.00**

Contractor

Asst. Engineer

29.9.2020

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Asst. Exec. Engineer,

Name of Work: Improvements to Sri Sainagara roads in ward no 03

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
12	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and								
	Asphalt Road								
	Attur								
	7th Cross Rd								
	Ch:0.00m to 30.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:30.00m to 60.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:60.00m to 90.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:90.00m to 120.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:120.00m to 150.0m	2	30.00	0.10 + 0.10 / 2		6.00			
	5th A Main Rd								
	Ch:150.00m to 180.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:180.00m to 206.70m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:0.00m to 30.00m	2	16.10	0.10 + 0.10 / 2		4.82			
	Sri Sainagara								
	Cross Rd								
	Ch:90.00m to 120.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:120.00m to 150.0m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:150.00m to 180.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:180.00m to 210.00m	2	30.00	0.10 + 0.10 / 2		6.00			
	Ch:0.00m to 30.00m	2	21.80	0.10 + 0.10 / 2		4.36			
						Present Qty		75.18 Sqm	389.58 29289.00
								Total	1906251.00
								GST 12%	228750.12
								Grand Total	2135001.12

R&FC

Contractor

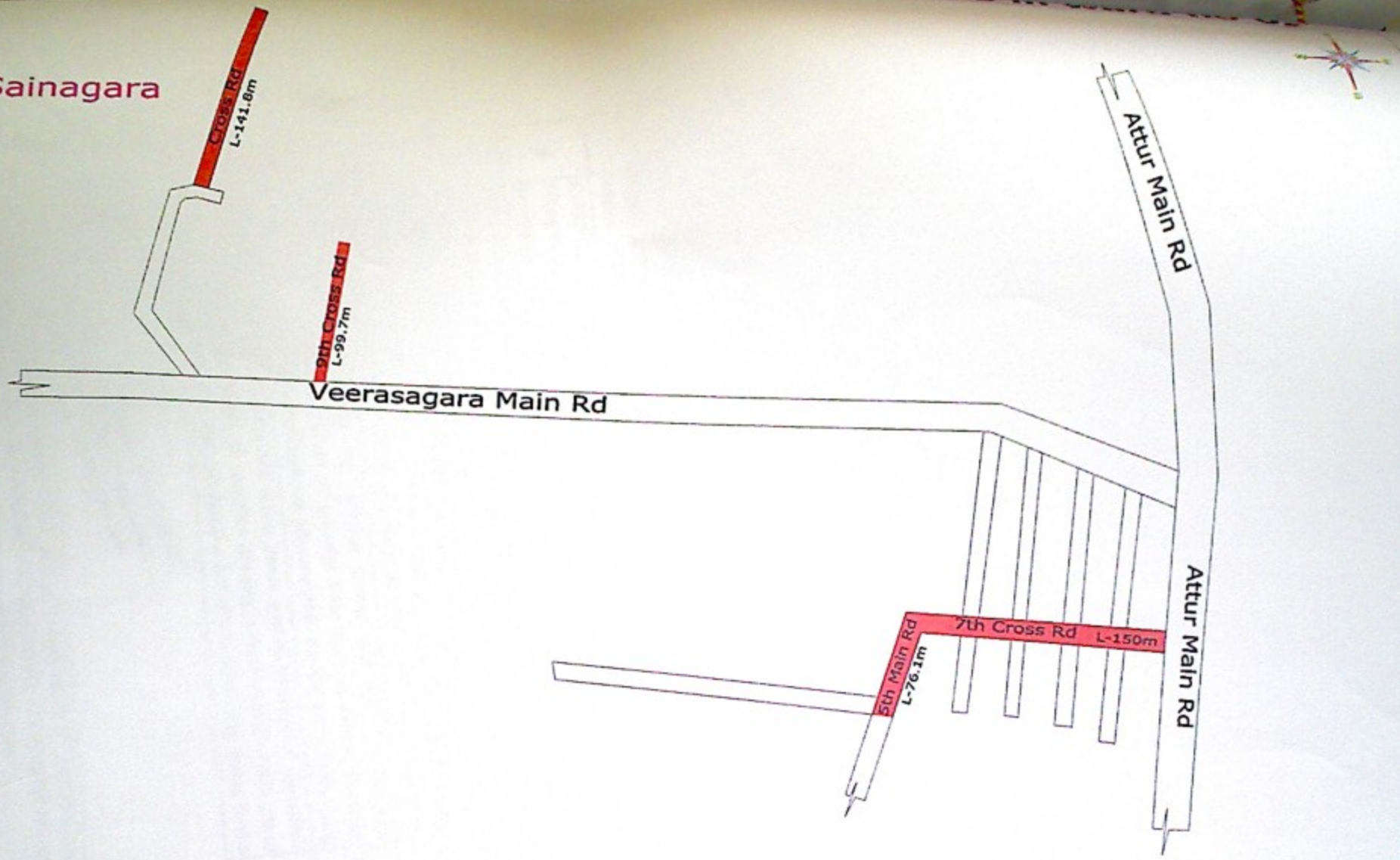
Asst. Engineer

29.9.2020.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Asst. Exec. Engineer,

Name of Work: **Improvements to Sri Sainagara**



CLIENT:
BRUHAT BANGALORE
MAHANAGARA PALIKE

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬ.ಎಂ.ಪ. ಬೆಂಗಳೂರು-06

Assistant Executive Engineer
Executive Engineer

Dwg no:
Date
Rev: R0